

Abstract

Speech Recognition Method and System

A speech recognition system uses a phoneme counter to determine the length of a word to be recognised. The result is used to split a lexicon into one or more sub-lexicons containing only words which have the same or similar length to that of the word to be recognised, so restricting the search space significantly. In another aspect, a phoneme counter is used to estimate the number of phonemes in a word so that a transition bias can be calculated. This bias is applied to the transition probabilities between phoneme models in an HNN based recogniser to improve recognition performance for relatively short or long words.

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